

#5



hrIZ	60	ATETLA	EVPE	HVLRGL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKGGK	FGPFV
rIZ	59	ATETLA	EVPE	HVLRGL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKGGK	FGPFV
Consensus	60	ATETLA	EVPE	HVLRGL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKGGK	FGPFV
hrIZ	120	PNLCHM	CIDA	TOPEKG	NWLR	YVNWAC	SGEE	QNLFP	LEINR		
rIZ	119	PNLCHM	CIDA	TOPEKG	NWLR	YVNWAC	SGEE	QNLFP	LEINR		
Consensus	120	PNLCHM	CIDA	TOPEKG	NWLR	YVNWAC	SGEE	QNLFP	LEINR		
hrIZ	180	APGEELL	VWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSR	GKKKS	ENKN
rIZ	179	APGEELL	VWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSR	GKKKS	ENKN
Consensus	180	APGEELL	VWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSR	GKKKS	ENKN
hrIZ	240	KCNKIO	DIA	NMR	SAECPK	ED	ASA	EQPA	DE	ASQV	PEIA
rIZ	239	KCNKIO	DIA	NMR	SAECPK	ED	ASA	EQPA	DE	ASQV	PEIA
Consensus	240	KCNKIO	DIA	NMR	SAECPK	ED	ASA	EQPA	DE	ASQV	PEIA
hrIZ	300	CEVND	CEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE
rIZ	295	CEVND	CEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE
Consensus	300	CEVND	CEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE
hrIZ	360	LEDSC	SEVTPA	MQIPR	KEEA	NGDV	ETFMF				
rIZ	355	LEDSC	SEVTPA	MQIPR	KEEA	NGDV	ETFMF				
Consensus	360	LEDSC	SEVTPA	MQIPR	KEEA	NGDV	ETFMF				

FIGURE 1A

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2/7



hr1Z	PCQHCEKKE	TKQGLERHMH	IHIST	NIAF	KCKYCGK	FG	TOINRRRHER	RHE	GLKR	420
r1Z	PCQHCEKKE	TKQGLERHMH	IHIST	NIAF	KCKYCGK	FG	TOINRRRHER	RHE	GLKR	415
Consensus	PCQHCEKKE	TKQGLERHMH	IHIST	NIAF	KCKYCGK	FG	TOINRRRHER	RHE	GLKR	420
hr1Z	STLQSEDL	ADGKASGENV	SKDSSPP	LG	DCLINS	EX	SCDTINS	S	VEENCEVK	480
r1Z	STLQSEDL	ADGKASGENV	SKDSSPP	LG	DCLINS	EX	SCDTINS	S	VEENCEVK	473
Consensus	STLQSEDL	ADGKASGENV	SKDSSPP	LG	DCLINS	EX	SCDTINS	S	VEENCEVK	480
hr1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	L	E	POPPAE	QA	QATQNVV	539
r1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	L	E	POPPAE	QA	QATQNVV	533
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	L	E	POPPAE	QA	QATQNVV	540
hr1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN	TSNCDVIEME	S	SA	LYCI		599
r1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN	TSNCDVIEME	S	SA	LYCI		593
Consensus	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN	TSNCDVIEME	S	SA	LYCI		600
hr1Z	CLLTPVTVEI	TONIKITQV	VTIDLRREPL	QSTNCEKKR	RTASPP	LPK	IK	ET	SDPM	659
r1Z	CLLTPVTVEI	TONIKITQV	VTIDLRREPL	QSTNCEKKR	RTASPP	LPK	IK	ET	SDST	653
Consensus	CLLTPVTVEI	TONIKITQV	VTIDLRREPL	QSTNCEKKR	RTASPP	LPK	IK	ET	SD..	660
hr1Z	VPCSLSLPL	SIST	EVSF	HKEKE	VYLSS	KLKQLLOTQD	KLIT	PAG	SA	719
r1Z	VPCSLSLPL	SIST	EVSF	HKEKE	VYLSS	KLKQLLOTQD	KLIT	PAG	SA	713
Consensus	VPCSLSLPL	SIST	EVSF	HKEKE	VYLSS	KLKQLLOTQD	KLIT	PAG	SA	720

FIGURE 1B



hrIZ	VSAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGK	D	GKAAWTD	Q	L	TSKK	KLES	779	
rRIZ	ASAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGK	D	GKAAWTD	T	V	L	TSKK	KLES	773
Consensus	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGK	D	GKAAWTD	L	TSKK	KLES		780	
hrIZ	SDSPAWSLSG	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNOQPLDLSS	GVKQK	ECTG	839
rRIZ	SDSPAWSLSG	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNOQPLDLSS	GVKQK	ECTG	833
Consensus	SOSPAWSLSG	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNOQPLDLSS	GVKQK	ECTG	840
hrIZ	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	Q	P	TC	SAV	KK	899
rRIZ	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	Q	P	TC	SAV	KK	889
Consensus	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	Q	P	TC	SAV	KK	900
hrIZ	IQLP	ENPAD	TRSPSPCKS	LE	Q	P	D	R	LG	P	SG	958
rRIZ	VS	LP	ET	TP	E	TRSPSPCKS	PD	Q	P	D	R	949
Consensus	LP	E	TRSPSPCKS	PD	Q	P	D	R	LG	P	SG	960
hrIZ	SQLP	P	LP	P	T	PSSPPPCP	P	V	L	T	V	1018
rRIZ	SQLP	P	LP	P	T	PSSPPPCP	P	V	L	T	V	1009
Consensus	SQLP	P	LP	P	T	PSSPPPCP	P	V	L	T	V	1020
hrIZ	SPLP	ILSPTV	SPSPSPITPPV	EPLMSAASPC	P	T	L	S	S	S	S	1078
rRIZ	SPLP	ILSPTV	SPSPSPITPPV	EPLMSAASPC	P	T	L	S	S	S	S	1067
Consensus	SPLP	ILSPTV	SPSPSPITPPV	EPLMSAASPC	P	T	L	S	S	S	S	1080

FIGURE 1C



hrIZ	LSA	SSVVSS	GNLEASLP	ISFKQEE	EN	EGLKPEEPQ	SAABQVWVQ	ETP	KNF	CN	1138	
rrIZ	LSA	SSVVSS	GNLEASLP	VTIFKQEE	ES	EGLKPEEPQ	PAQCESVWQ	ETP	KNF	CN	1126	
Consensus	LSA	SSVVSS	GNLEASLP	FKQEE	E	EGLKPEEP	AQ	WVQ	ETP	KNF	CN	1140
hrIZ	VCESPF	LSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK		1198	
rrIZ	VCESPF	LSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK		1186	
Consensus	VCESPF	LSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFLLHGV	GNIFVCSVCK		1200	
hrIZ	KEFAFLCNLQ	QHQRDLHPDK			VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	LPET	PLETSK	1258	
rrIZ	KEFAFLCNLQ	QHQRDLHPDE			VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	LPET	PLETSR	1246	
Consensus	KEFAFLCNLQ	QHQRDLHPD			VCTHIEFESG	TLRPQNFTDP	SKA	VEHMS	LPET	PLETS	1260	
hrIZ	EEELNDSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1318	
rrIZ	EEELNDSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1305	
Consensus	EEELNDSSE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1320	
hrIZ	TNFTTHNIPO	TFTTAIRCTK	CGKGVNDNPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1378	
rrIZ	TNFTTHNIPO	TFTTAIRCTK	CGKGVNDNPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1365	
Consensus	TNFTTHNIPO	TFTTAIRCTK	CGKGVNDNPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1380	
hrIZ	QPKNGVVVLD	NSGKNAFRM	QOPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKATLOKN	1438	
rrIZ	QPKNGVVVLD	NSGKNAFRM	QOPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKATLOKN	1425	
Consensus	QPKNGVVVLD	NSGKNAFRM	QOPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKATLOKN	1440	

FIGURE 1D



hRIZ	KSAKQKADLK	NACDESSSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	K	KVSHSSKKQ	1498			
rRIZ	RAAKQKADLR	DTSESSSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	K	KVSHSSKKQ	1485			
Consensus	AKQKADL	E	SSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	K	KVSHSSKKQ	1500		
hRIZ	CHSPASSDK	NSVSNHRRRT	AD	EIKHMOS	Q	PLGKTRAR	SECPQVLP	SSSFRS	QNV	1558		
rRIZ	CHSSSSDR	NSSECHRRRT	AD	EIKMQST	Q	PLGKTRAR	SECPQVLP	SSSFRS	QNV	1545		
Consensus	CHSSSS	NS	RRRT	AD	EIKMQS	Q	PLGKTRAR	SECPQVLP	SSSFRS	QNV	1560	
hRIZ	KFAASVKSKK	SSSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NHSAQLSSKT	SRE	LHVRVQK		1618			
rRIZ	KFAASVKSKK	SSSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NHSAQLSSKS	SRE	LHVRVQK		1605			
Consensus	KFAASVKSKK	SSSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NHSAQLSSK	SRE	LHVRVQK		1620			
hRIZ	SKAVQSKET	LASKRTDRF	NKSRERSGG	P	TRSLQLAA	AADLSE	NKRE	D	SAKDELKD	1678		
rRIZ	SKAVQSKTA	LASKRTDRF	NKSRERSGG	P	TRSLQLAA	AADLSE	NKRE	D	SAKDELKD	1665		
Consensus	SKAVQSK	LASKRTDRF	NKSRERSGG	P	TRSLQLAA	AADLSE	NKRE	D	SAKDELKD	1680		
hRIZ	FSYSLRLASR	CSPPAAHYIT	RC	RKVKA	A	AC	FOGPF	K	E	1719		
rRIZ	FSYSLRLASR	CSSTAAHYIT	RC	RKVKA	A	AT	FOGPF	K	E	1707		
Consensus	FSYSLRLASR	C	A	YIT	RC	RKVKA	A	A	FOGPF	K	E	1722

FIGURE 1E

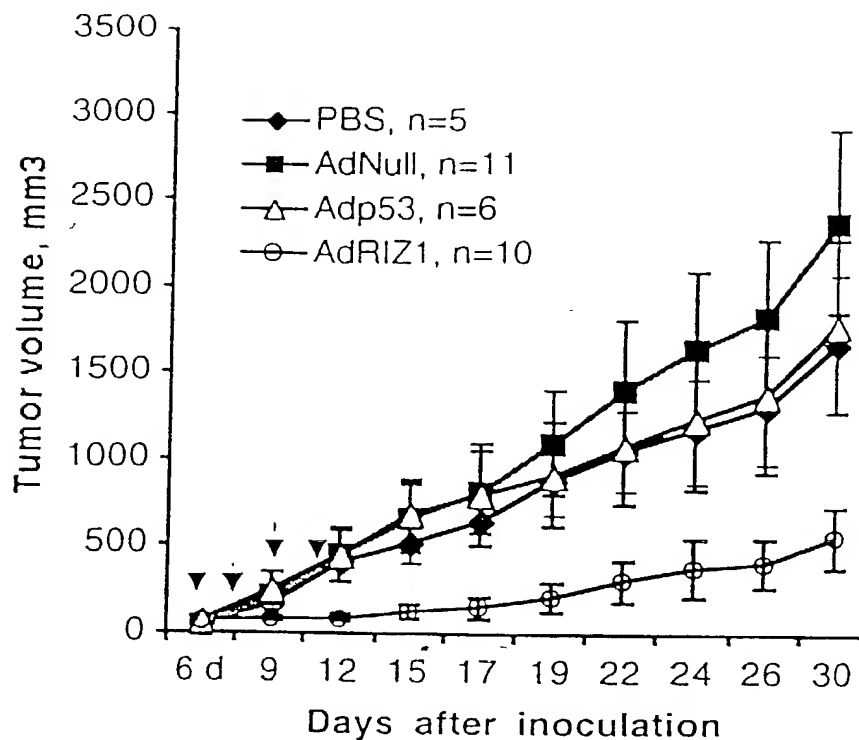


FIGURE 2

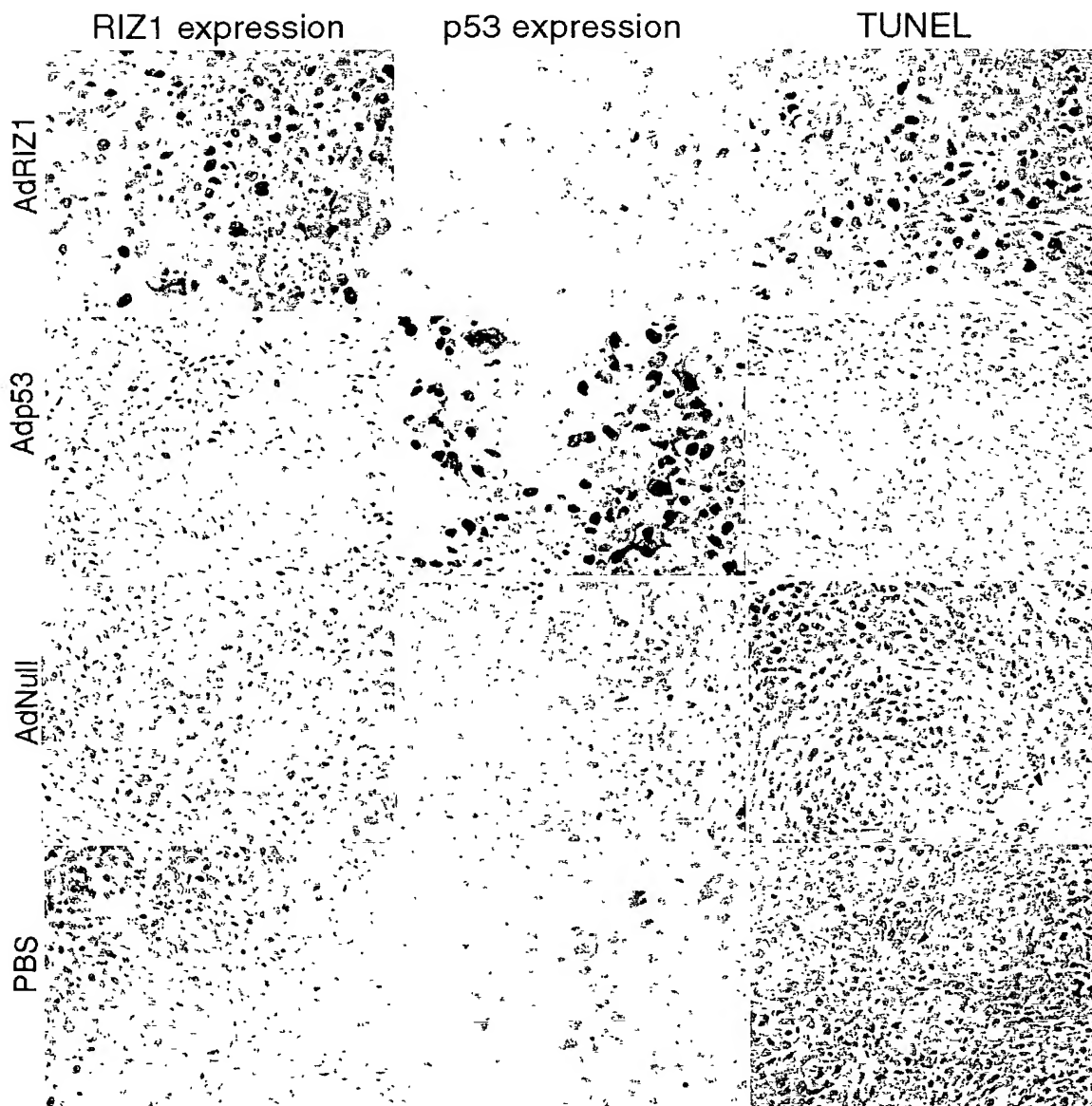


FIGURE 3